

U.S. EPA TECHNICAL SUPPORT PROJECT SEMI-ANNUAL MEETING AGENDA

**October 23-27, 2000
Westin Francis Marion Hotel
Charleston, SC**



U.S. EPA TECHNICAL SUPPORT PROJECT CO-CHAIRS

Engineering Forum:

Jo Ann Cola, Region 9 • Camille Hueni, Region 6 • Steve Kinser, Region 7

Ground-Water Forum:

Curt Black, Region 10 • Kathy Davies, Region 3

Federal Facilities Forum:

Meghan Cassidy, Region 1 • Steve Hirsh, Region 3 • Craig Thomas, Region 5

MONDAY, OCTOBER 23, 2000

<u>Federal Facilities Forum</u> <i>Calhoun Room (Mezzanine Level)</i>	<u>Engineering Forum</u> <i>Laurens Room (Mezzanine Level)</i>	<u>Ground Water Forum</u>
1:00-2:30 pm Regional Round-Up (Co-chairs) 2:30-3:30 pm Regulatory Updates: Range Rule, Perchlorate, FUDs, State Issues, etc. 3:30-3:45 pm BREAK 3:45-5:15 pm Sediment/Ecological Risk Update (Steve Ells, OERR)	1:00-2:00 pm Hydrogen and Oxygen Release Compounds (Scott Wilson, Regenesis) 2:00-3:00 pm Results of Solidification/Stabilization for the Treatment of Dioxins, PCP, Creosote, and Metals at a Wood preserving Site (Ed Bates, NRMRL) 3:00-5:00 pm Geophysical and Remote Sensing Techniques (Mark Vendl and James Ursic, Region 5 Superfund Program)	8:00 am - 5:45 pm Day 1 of Field Trip: Ground Water/Surface Water Interaction and Monitoring Workshop (see attached field trip agenda for details) 5:45 pm Depart field to return to hotel.

TUESDAY, OCTOBER 24, 2000
(morning)

Federal Facilities Forum and Engineering Forum ¹	<u>Ground Water Forum</u>
<p>7:30 am: Board bus in front of Westin Francis Marion</p> <p>7:45 am: Bus departs Westin Francis Marion for Naval Complex, Starrett Hall</p> <p>8:30 - 8:45 am Welcome and Introductions</p> <p>8:45 - 9:15 am Chemical Oxidation Coupled with Monitored Natural Attenuation for Treatment of CVOCs in Ground Water at Naval Submarine Base, Kings Bay, Georgia (Cliff Casey, Southern Division, NAVFAC)</p> <p>9:15- 9:45 am Ammonium Perchlorate Remediation at NWIRP McGregor (Speaker TBD)</p> <p>9:45 - 10:00 am BREAK</p> <p>10:00 -10:30 am RCRA Interim Status Closures at the Naval Weapons Station, Charleston, South Carolina (Pano Kordonis, Southern Division, NAVFAC)</p> <p>10:30 - 11:00 am Site Characterization of a Contaminated Ground-Water Plume Using Water-to-Vapor Diffusion Samplers and Ground-Water Modeling at Naval Air Station, Whiting Field, Florida (Cliff Casey, Southern Division, NAVFAC)</p> <p>11:00 - 11:45 am Fixed-Price Indemnified Environmental Restoration Contracting at the Charleston Naval Complex, South Carolina (Tony Hunt, Southern Division NAVFAC)</p> <p>11:45 am - 12:30 pm LUNCH (onsite, orders and \$7 will be collected at the business sessions on Monday)</p>	<p>9:00 am - 12:45 pm Day 2 of Field Trip: Ground Water/Surface Water Interaction and Monitoring Workshop (see attached field trip agenda for details)</p> <p>12:45 - 1:30 pm: LUNCH</p>

¹ The tour is limited to Federal Facility Forum and Engineering Forum members and friends listed on the attached participants sheet. Please board the bus in front of the Westin Francis Marion by 7:30 am The bus will depart *promptly* at 7:45 am.

TUESDAY, OCTOBER 24, 2000
(afternoon)

<u>Federal Facilities Forum and Engineering Forum</u>	<u>Ground Water Forum</u>
<p>12:30 - 1:30 pm Site Characterization, Enhanced Bioremediation, Treatability Studies, and Remedial Design of Six-Phase Heating System to Treat Chlorinated Hydrocarbons in Ground Water at the Charleston Naval Annex (Dean Williamson, CH₂M Hill, and Todd Thaverkost, EnSafe)</p> <p>1:30 - 1:45 pm Board Bus for Field Trip</p> <p>1:45 - 2:45 pm Site Visit and Question and Answer Session at the Charleston Naval Annex (Proposed for Six-Phase Heating System) (Tony Hunt, Southern Division NAVFAC, Dean Williamson, CH₂M Hill, and Todd Thaverkost, EnSafe)</p> <p>2:45 - 3:15 pm Board bus for return trip to downtown Charleston</p> <p>3:15 - 4:15 pm Onsite Presentation and Question and Answer Session at the Former Coal Gasification Plant Phytoremediation Project, New Charleston Aquarium Site (Jim Landmeyer, U.S. Geological Survey)</p> <p>4:15 pm Optional Tour of Charleston Aquarium (on your own) or walk back to hotels (about 4 blocks)</p>	<p>1:30 - 2:15 pm Return to Hotel</p> <p>2:15- 2:45 pm Data Reduction at Hotel (<i>Calhoun Room, Mezzanine Level</i>)</p> <p>2:45 - 4:00 pm Presentations and Discussions</p>

WEDNESDAY, OCTOBER 25, 2000
(morning)

<u>Federal Facilities Forum</u> <i>Room 224, College of Charleston's Lightsey Conference Center</i>	<u>Engineering Forum</u> <i>Laurens Room</i>	<u>Ground Water Forum</u> <i>Room 224a, College of Charleston's Lightsey Conference Center</i>
8:00 - 10:00 am FFRRO Update (Renee Wynn, FFRRO)	8:30 - 8:45 am Introductions (Co-chair Steve Kinser)	8:30 - 8:50 am Welcome (Co-chairs Curt Black and Kathy Davies)
10:00 - 10:15 am BREAK	8:45 - 9:30 am Membership (Co-chair Camille Hueni) —Membership status —Policy: membership status and lodging reimbursement —Regional networking —Replacing members —Membership agreements	8:50 - 9:10 am Pump and Treat Optimization (Kay Wischkaemper, Region 4)
10:15 am - 12:00 pm UXO-Related Technical Discussions (Harry Craig, Region 10)	9:30 - 9:45 am Co-chair Election Process and Nominations	9:10 - 9:30 am Geophysics and Isotopes (Vince Malott, Region 6)
	9:45 - 10:15 am State Participation (Jim Harrington, NYSDEC)	9:30 - 9:50 am Six-Phase Heating Remedial Techn- ology (Jennifer Sutter, Oregon DEQ)
	10:15 - 10:30 am BREAK	9:50 - 10:10 am Summary of DNAPL Course (Jeff Johnson, Region 7)
	10:30 - 10:45 am Draft FY2000 Accomplishments (Steve Kinser)	10:10 - 10:30 am BREAK
	10:45 - 11:45 am Status of Work Groups (Camille Hueni) —Oxygenate Paper —Process Parameters Table —COE Checklist Promotion	10:30 - 10:50 am Ground Water to Indoor Air Model (Helen Dawson, Region 8)
	11:45 - 1:00 pm LUNCH	10:50 - 11:10 am TBD (Dick Willey, Region 1)
		11:10 - 11:30 am Landfill Caps and Slug Tests vs. Pumping Tests (Luanne Vanderpool, Region 5)
		11:30-11:50 am Ground-Water Remediation (René Fuentes, Region 10)
		11:50 am - 1:00 pm LUNCH

WEDNESDAY, OCTOBER 25, 2000
(afternoon)

<u>Federal Facilities Forum</u> <i>Room 224 Lightsey Conference Center</i>	<u>Engineering Forum</u> <i>Laurens Room</i>	<u>Ground Water Forum</u> <i>Room 224a Lightsey Conference Center</i>
<p>12:00 -1:00 pm LUNCH</p> <p>1:00 - 1:30 pm State Issues and Concerns (State members and Co-chairs)</p> <p>1:30 - 2:00 pm Tabbs Creek Sediment Remediation Case Study (Stacie Driscoll, Region 3, and Robert Weld, Virginia DEQ)</p> <p>2:00 - 2:30 pm Use of Passive Soil Gas Sampling and Vertical Soil Gas Wells to Identify Source Areas of Ground-Water Contamination (Jim Kiefer, Region 8)</p> <p>2:30 - 3:00 pm Perchlorate Remediation Technology (Envirogen)</p> <p>3:00 - 3:15 pm BREAK</p> <p>3:15 - 5:00 pm Review and assign action items; build agenda for spring meeting; close-out</p>	<p>1:00 - 2:00 pm Future of the Forum —Where to go from here and how to get there (Co-chairs) —FY2001 Projects/Evergreen List (members) —Forum participation with the Ecological Risk Assessment Forum (Mark Granger) —Forum involvement with Superfund Technical Liaisons (Co-chairs)</p> <p>2:00 - 5:00 pm Spring Meeting (where and when, theme, round table/case studies, field trip, committees)</p>	<p>1:00 - 5:30 pm Business and Regional/State Technical Issues, including: —DPT Work Group Update (Bernie Zavala, Region 10) —Sampling Paper Update (Bernie Zavala, Region 10)) —Micro/Macro Issue Paper Update (Vince Malott, Region 6) —ITRC Update (Vince Malott, Region 6) —Co-Chair Nominations</p>
<p>5:30-6:00 pm State Participation Meeting (State representatives and NGWA) (<i>Laurens Room</i>)</p>		

THURSDAY, OCTOBER 26, 2000

All Forums

Colonial Room (Lobby Level)

NGWA Short Course: Groundwater Geochemistry of Contamination Assessment and Remediation, Day 1

Pat Longmire and Bill Deutsch, Instructors

8:00 - 9:15 am

Class Introduction and Discussion of Geochemical Characterization

9:15 - 9:30 am

BREAK

9:30 - 10:45 am

Solutions, Minerals, and Equilibria

10:45 - 11:00 am

BREAK

11:00 am - 12:00 pm

Geochemical Concepts of Organic Fate and Transport

12:00 - 1:00 pm

LUNCH

1:00 - 2:15 pm

Adsorption

2:15 - 2:30 pm

BREAK

2:30 - 3:45 pm

Chemical Evolution of Ground Water and Geochemical Modeling

3:45 - 4:00 pm

BREAK

4:00 - 5:30 pm

Oxidation-Reduction Chemistry of Inorganic Compounds

FRIDAY, OCTOBER 27, 2000

All Forums

Colonial Room (Lobby Level)

NGWA Short Course: Groundwater Geochemistry of Contamination Assessment and Remediation, Day 2

Pat Longmire and Bill Deutsch, Instructors

8:00 – 9:15

Mobility of Inorganic Compounds

9:15 - 10:45 am

Assessment of Mixed Organic/Inorganic Aquifer Contamination

10:45 - 11:00 am

BREAK

11:00 am - 12:15 pm

Class Exercises on Contaminant Characterization

12:15 - 1:15 pm

LUNCH

1:15 – 2:30

Intrinsic Remediation of Selected Metals and Radionuclides

2:30 - 2:45 pm

BREAK

2:45 – 3:45

Class Exercises on Contaminant Assessment/Mobility

3:45 - 4:00 pm

BREAK

4:00 - 5:00 pm

Class Exercises on Aquifer Remediation

FIELD TRIP AGENDA

Ground Water/Surface Water Interaction and Monitoring Workshop

Monday, October 23

- 8:00 am** Depart Westin Francis Marion; travel to Short Stay Recreational Facility
- 8:45 am** Arrive at Short Stay; Continental Breakfast (Provided)
- 9:00 am** Ground Water/Surface Water Interaction Lecture (David Lee)
- 11:00 am** Ground Water/Surface Water Quality Monitoring Lectures
- Matt Petkewich “Diffusion Samplers”
 - Forest Lyford “Techniques for Installing Vapor Diffusion Samplers”
 - Mark Henry “The Henry Push-Point Sampler”
 - Marc Greenberg “Ground Water-Surface Water Interaction: A Frequently Overlooked Parameter in Sediment Toxicity Assessments”
- 12:00 noon** Lunch (Provided)
- 12:45 pm** Divide into two groups.

Blue Group		Green Group	
12:45-3:15 pm	Field Exercise (Short Stay)	12:45-1:15 pm	Travel to Stream Site
3:15 - 4:00 pm	Travel to Stream Site	1:15-2:45 pm	Field Exercise (Stream)
4:00 - 5:30 pm Field Exercise (Stream)		2:45 - 3:15 pm	Return to Short Stay
		3:15 - 5:45 pm	Field Exercise (Short Stay)
5:30 pm	Return to hotel	5:45 pm	Return to hotel
Blue Group will make overnight measurements at Stream Site. Green Group will make overnight measurements at Short Stay.			

Tuesday, October 24

Blue Group		Green Group	
9:00 am	Depart Westin, Return to Stream Site	9:00 am	Depart Westin. Return to Short Stay
9:30 -10:00 am	Retrieve Equipment	9:45 - 10:15 am	Retrieve Equipment
10:00 -10:30 am	Return to Short Stay	10:15 - 12:45 am Individual/Team Projects	
10:30 am 12:45 pm	Individual/Team Projects		
12:45 - 1:30 pm Lunch (Provided)/Divide Equipment			
1:30 - 2:15 pm Return to Hotel			
2:15 - 2:45 pm Data Reduction at Hotel			
2:45 - 4:00 pm Presentations and Discussions			